

Vaibhav R. Bhandari

Present Address

401 Spring Street
Santa Cruz, CA 95060
(831) 423-7381
<http://www.cse.ucsc.edu/~vaibhav>

School Address

UC Santa Cruz
1156 High Street
Santa Cruz, CA 95065
vaibhav@cse.ucsc.edu

Objective Summer-2002 position in the field of Computer Science with special interest in Systems. Typically, as a Systems' Programmer for general purpose software, embedded or consumer electronics development environments.

Interests Software systems' optimization, embedded and real-time systems, compilers.

Work Experience **Teaching Assistant**, at UC Santa Cruz since Sep 2001 for Introductory and Advanced Java courses.

Research Assistant, at Tata Institute of Fundamental Reseach, India; from Feb-July 2000. Worked on MicroPayment protocol design for kiosk based consumer points and related security issues.

Instructor, at Vidhyalankar Classes, Mumbai(India) from June-Nov 1999 for Computer Programming course.

Education **Pursuing MS** Computer Science, UC Santa Cruz, Santa Cruz, CA 95060. Sep 2001 onwards

B.E. Computer Engineering, VES Institute of Technology, Mumbai, India. Aug 1997 - Aug 2001.
Score 68% (Top 5%)

DBF (α, β)-Diploma in Business Finance-part Time, ICFAI, Hyderabad, India. June 2000 -onwards.
Score 60% (Top 10%)

Research Skills **Linux Scheduler**, Performance evaluation and custom policies.

Security Analysis Of Handhelds, term paper submitted to IEEE IWSAWC'2002.

BE Thesis, Final Year Project, VES IT, Mumbai, India Aug 2000-01

- Researched and implented various Java Bytecode Optimization techniques with performance gain of 1-2%.
- Proposed an architecture- **VegaRekha** for obtaining advanced optimization by using annotated bytecode.

Home Papers VES IT, Mumbai India.

- Design Of Online Stock Exchanges.
- Hashing Revisited.

Maths Research Workshop, Bhaskaracharya Prathisthan, Pune, India Summer 1995.

- The workshop focussed on the **Maths Olympiad** competition covering Number Theory, Pure Geometry, Combinatorics, Graph Theory and Algebra.

Software Skills

Projects

- **VegaRekha** a tool for java bytecode optimization written in java supporting GUI, Commandline and import executions.
- **Yaadein** a website for collaborative authoring of my graduate class yearbook. Done using PHP/MySQL combo.
- **MA Awards** an online voting system forbidding double voting based on PhP/MySQL session handling.
- **Library Management System** a compact implementation of library system using C++ and STL library under GCC environment.
- **Zee Interpreter** an interpreter using Lex and Yacc tools for an experimental language Zee.
- **Collision Avoidance System**, system integration cell as a part of IEEE branch project. Based on MC6811 microcontroller.

Languages and Packages Known

- **Programming Languages:** Pascal(2 years), C(4 years), C++(2 years), Java(2 years).
- **Programming Environment:** Make, RCS, Forte.
- **Scripting and Query Languages:** XHTML, PHP, SQL.
- **Mark Ups:** HTML, XML(1 year), L^AT_EX.
- **Editors:** Emacs, MS-Word, MS-Publisher, MCedit, ilyx.
- **Compilers and debuggers:** GCC, GDB, Turbo C++, JDK 1.3.
- **Platforms:** x86 Linux, x86 Win, Solaris.

Other Activities

Editorial

- Chief Editor of ***.***, the annual inter-collegiate student magazine of Computer Society Of India's Mumbai chapter.
- Editor and Conceptualizer of e-Sense, CSI-VESIT's newsletter.
- Editor and Conceptualizer of Saransh - brochure of United Jain Students' Home, Mumbai.

Leadership

- Founder, Vitraag Inc (www.vitraag.com) a consultancy and software development company.
- Won Most Promising Speaker Award from DEBSOC, 1999.
- Member of Core committee of Emerge2000 - technical symposium organized by CSI India.
- Conceptualizer of Inflections'99 a technical event.
- Chief Organizer of a cultural festival Mirage2000.

Academic Honors

Won the coveted National Talent Search Examination (NTSE) Scholarship awarded by The National Council of Education Research and Training, India.

Kaprepar Mathematics Scholarship.

Motto

Mode: Happiness Method: Practicality and Goal: Dreams.

References

Available upon request.